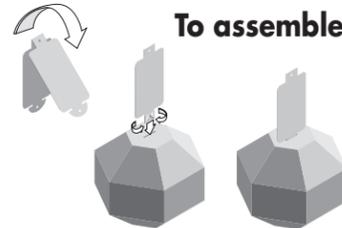
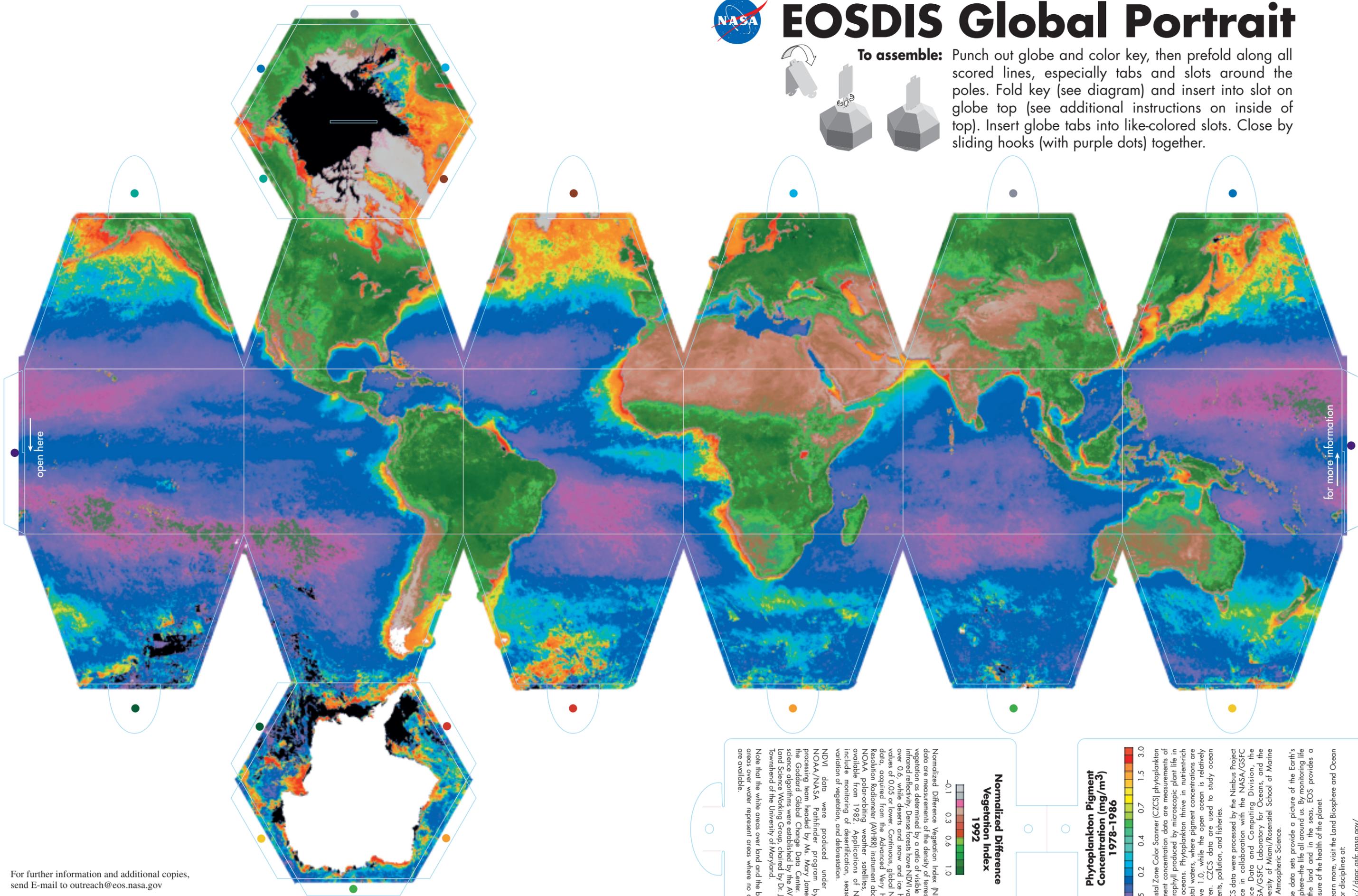




EOSDIS Global Portrait



To assemble: Punch out globe and color key, then prefold along all scored lines, especially tabs and slots around the poles. Fold key (see diagram) and insert into slot on globe top (see additional instructions on inside of top). Insert globe tabs into like-colored slots. Close by sliding hooks (with purple dots) together.



open here

for more information

Normalized Difference Vegetation Index 1992

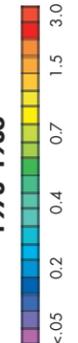


Normalized Difference Vegetation Index (NDVI) data are measurements of the density of terrestrial vegetation as determined by a ratio of visible and infrared reflectivity. Dense forests have NDVI values over 0.6, while deserts and snow and ice have values of 0.05 or lower. Continuous, global NDVI data, acquired from the Advanced Very High Resolution Radiometer (AVHRR) instrument aboard NOAA polar-orbiting weather satellites, are available from 1982. Applications of NDVI include monitoring of desertification, seasonal variation of vegetation, and deforestation.

NDVI data were produced under the NOAA/NASA Pathfinder program by a processing team headed by Ms. Mary James of the Goddard Global Change Data Center. The science algorithms were established by the AVHRR Land Science Working Group, chaired by Dr. John Townsend of the University of Maryland.

Note that the white areas over land and the black areas over water represent areas where no data are available.

Phytoplankton Pigment Concentration (mg/m³) 1978-1986



Coastal Zone Color Scanner (CZCS) phytoplankton pigment concentration data are measurements of chlorophyll produced by microscopic plant life in the oceans. Phytoplankton thrive in nutrient-rich coastal waters, where pigment concentrations are above 1.0, while the open ocean is relatively barren. CZCS data are used to study ocean currents, pollution, and fisheries.

CZCS data were processed by the Nimbus Project Office in collaboration with the NASA/GSFC Space Data and Computing Division, the NASA/GSFC Laboratory for Oceans, and the University of Miami/Rosenstiel School of Marine and Atmospheric Science.

These data sets provide a picture of the Earth's biosphere—the life all around us. By monitoring life on the land and in the seas, EOS provides a measure of the health of the planet.

To learn more, visit the Land Biosphere and Ocean Color disciplines at: <http://doc.gsfc.nasa.gov/>

For further information and additional copies, send E-mail to outreach@eos.nasa.gov

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Earth Observing System

The Earth Observing System (EOS) is an integral part of the National Aeronautics and Space Administration's (NASA's) Earth Science Enterprise, a long-term global change research program designed to improve our understanding of the Earth's interrelated processes involving the atmosphere, oceans, land surfaces, and polar regions. Data derived from EOS instruments and other Earth science measurement systems are particularly useful in understanding the causes and processes of global climate change and the consequences of human activities.

The EOS Data and Information System (EOSDIS) provides a structure for data management and user services for more than 1,200 current NASA Earth science data products and will handle future data from a series of EOS instruments spanning the next two decades. Within the EOSDIS framework, the Distributed Active Archive Centers (DAACs) are responsible for providing services to support the global change research community. Data products are available through the EOS Data Gateway (EDG) search-and-order system and DAAC-specific ordering systems. Additional means of access will become available as the program evolves.

EOS Data Gateway Search-and-Order System

This search-and-order system provides a consistent view of data products held at the DAACs and other cooperating data centers, allowing users without specific knowledge of the data to search science data holdings, retrieve high-level descriptions of data sets and detailed descriptions of the data inventory, view thumbnail (browse) images, and place orders for data products. It is suitable for a wide range of Earth science data users—from users with limited computer resources interested in performing occasional simple searches for data, to the professional Earth science researcher in need of executing complex data queries on a regular basis. No password or special account is necessary. This service is accessible via the Web at

<http://eos.nasa.gov/imswelcome>

Searching & Ordering Search Types

A search is done by specifying geographic areas of interest along with either geophysical parameter, data set name, or sensor name. Several other criteria such as source name, campaign, extended attribute, and time range may optionally be used. EDG searches on data sets and documents. Search options include a primary data search, a quick data set lookup, and two document searches.

The **Primary Data** search provides descriptions of specific observations or collections of observations of data (granules) that are available for request from a data center.

The **Data Set Lookup** feature lets a user type in a simple text string or a common term to quickly obtain a list of data sets as a first step in the search-and-order process.

The **Summary Document** search provides summary information about EOSDIS data sets to help the user determine appropriate data products. The information is derived from the Global Change Master Directory (GCMD), a comprehensive directory of Earth science and global change data. (The GCMD can be accessed directly at <http://gcmd.nasa.gov>.)

The **Detailed Document** search provides detailed descriptions for one or more data sets and related entities. The information is helpful for determining the location and content of each data set and its potential usefulness for a specific application, namely, data sources, instruments, projects, and data centers that archive and distribute the data.

When the search results are returned, summary and detailed descriptions are provided. Sample browse images are also provided for many data sets. A variety of media and formatting options are available depending on the data set. Some data are restricted to registered researchers.

For assistance or more information on searching and ordering, contact the EDG Science Support Team via E-mail at edg@killians.gsfc.nasa.gov, or contact any of the DAACs.

NASA's Distributed Active Archive Centers

ASF DAAC Alaska SAR Facility Synthetic Aperture Radar (SAR) and Polar Processes

ASF DAAC User Services
P.O. Box 757320
University of Alaska Fairbanks
Fairbanks, Alaska 99775-7320 USA
Phone: +1 907-474-6166; Fax: +1 907-474-2665
E-mail: asf@eos.nasa.gov
Web: <http://www.asf.alaska.edu>

EDC DAAC Earth Resources Observation Systems (EROS) Data Center Land Processes

EDC DAAC User Services
EROS Data Center
47914 252nd Street
Sioux Falls, SD 57198-0001 USA
Phone: +1 605-594-6116; Fax: +1 605-594-6963
E-mail: edc@eos.nasa.gov
Web: <http://edcdaac.usgs.gov>

GSFC DAAC Goddard Space Flight Center Upper Atmosphere, Atmospheric Dynamics, Hydrology, Global Precipitation, Global Biosphere

GSFC DAAC User Services
NASA Goddard Space Flight Center
Code 902
Greenbelt, MD 20771 USA
Phone: +1 301-614-5224
Fax: +1 301-614-5268
E-mail: gsfc@eos.nasa.gov
Web: <http://daac.gsfc.nasa.gov>

JPL DAAC Jet Propulsion Laboratory Physical Oceanography/Air-Sea Interactions

JPL DAAC User Services
Jet Propulsion Laboratory
MS Raytheon-299
4800 Oak Grove Drive
Pasadena, CA 91109 USA
Phone: +1 626-744-5508; Fax: +1 626-744-5506
E-mail: jpl@eos.nasa.gov
Web: <http://podaac.jpl.nasa.gov>
FTP: [podaac.jpl.nasa.gov](ftp://podaac.jpl.nasa.gov)

LaRC DAAC Langley Research Center Radiation Budget, Clouds, Aerosols, Tropospheric Chemistry

Langley DAAC User Services
NASA Langley Research Center
Mail Stop 157D
2 South Wright Street
Hampton, VA 23681-2199 USA
Phone: +1 757-864-8656; Fax: +1 757-864-8807
E-mail: larc@eos.nasa.gov
Web: <http://eosweb.larc.nasa.gov>

NSIDC DAAC National Snow and Ice Data Center Snow and Ice, Cryosphere and Climate

NSIDC DAAC User Services
National Snow and Ice Data Center
449 UCB, University of Colorado
Boulder, CO 80309-0449 USA
Phone: +1 303-492-6199
Fax: +1 303-492-2468
E-mail: nsidc@eos.nasa.gov
Web: <http://nsidc.org>

To display key outside the globe, insert round end of key from other side through this slot, then bend wings out to lock in place.

To store key inside the globe, insert square end of key from this side.

To hang, insert string or unfolded paperclip through hole in key.

ORNL DAAC Oak Ridge National Laboratory Biogeochemical Dynamics, Terrestrial Ecology

ORNL DAAC User Services
Oak Ridge National Laboratory
P.O. Box 2008
MS 6407, Bldg. 1507
Oak Ridge, TN 37831-6407 USA
Phone: +1 865-241-3952; Fax: +1 865-574-4665
E-mail: ornl@eos.nasa.gov
Web: <http://www.daac.ornl.gov>

SEDAC Socioeconomic Data and Applications Center Human Interactions in the Environment

SEDAC User Services
CIESIN at Columbia University
P.O. Box 1000
61 Route 9W
Palisades, NY 10964 USA
Phone: +1 845-365-8920; Fax: +1 845-365-8922
E-mail: sedac@eos.nasa.gov
Web: <http://sedac.ciesin.columbia.edu>

Cooperating Data Centers

Global Hydrology Resource Center Marshall Space Flight Center Global Hydrology

GHRC User Services
Global Hydrology and Climate Center
320 Sparkman Drive
Huntsville, AL 35806 USA
Phone: +1 256-961-7932
Fax: +1 256-961-7859
E-mail: ghrc@eos.nasa.gov
Web: <http://ghrc.msfc.nasa.gov/>

NOAA National Oceanic and Atmospheric Administration Web: <http://nndc.noaa.gov/>

NOAA Data Centers

Satellite Active Archive (SAA) Weather and Climate

NOAA SAA User Services
NOAA/NCDC
151 Patton Avenue
Asheville, NC 28801-5001 USA
Phone: +1 828-271-4850; Fax: +1 828-271-4876
E-mail: satorder@ncdc.noaa.gov
Web: <http://www.saa.noaa.gov/>

National Climatic Data Center (NCDC) Weather and Climate Records

NOAA NCDC User Services
151 Patton Avenue, Room 120
Asheville, NC 28801-5001 USA
Phone: +1 828-271-4800; Fax: +1 828-271-4876
E-mail: orders@ncdc.noaa.gov
Web: <http://www.ncdc.noaa.gov/>

National Geophysical Data Center (NGDC) Solar, Marine, and Terrestrial Geophysical Information and Paleoclimatological Data

NOAA NGDC User Services
Mail Code E/GC4
325 Broadway
Boulder, CO 80303 USA
Phone: +1 303-497-6826; Fax: +1 303-497-6513
E-mail: info@ngdc.noaa.gov
Web: <http://www.ngdc.noaa.gov/>

National Oceanographic Data Center (NODC) Physical, Chemical, and Biological Oceanic Data

NOAA NODC User Services
SSMC-3 Fourth Floor
1315 East-West Highway
Silver Spring, MD 20910-3282 USA
Phone: +1 301-713-3277
Fax: +1 301-713-3302
E-mail: services@nodc.noaa.gov
Web: <http://www.nodc.noaa.gov/>

Concept: William North
Earth Science Data & Information System
NASA/GSFC

Design: Robert Simmon
GSFC Distributed Active Archive Center
Research & Professional Services

Map Projection: Marit Jentoft-Nilsen
GSFC Lab for Atmospheres
SSAI

Development: Britt Griswold
GSFC Publications & Graphics
RSIS

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Earth Science Enterprise
Earth Science Data &
Information System

For further information and
additional copies, send E-mail to
outreach@eos.nasa.gov

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